

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A cryoarray device comprising:

a mold plate having an upper and a lower surface;

mold alignment pins, said mold alignment pins perpendicularly and positionally attached to the lower surface of said mold plate to direct placement of said device into a tissue mold.

an ejector plate having an upper surface and a lower surface, said plate comprising holes between said upper surface and said lower surface;

ejector pins, said ejector pins comprising ejector thumb pads attached to an upper surface of said pins, said ejector pins operably attached to said ejector plate and connect said ejector plate and said mold plate;

ejector springs, each of said springs surrounding an outer surface of each of said ejector pins and operably located between said upper surface of said mold plate and said lower surface of one of said ejector thumb pads; and

cryoarray pins, said cryoarray pins equal in number to said holes in said ejector plate and aligned with said holes in said ejector plate.

Claim 2 (canceled).

Claim 3 (previously presented): The cryoarray device of claim 1, wherein said cryoarray pins are attached operably to the lower surface of said mold plate to pass through said holes in said ejector plate.

Claim 4 (previously presented): The cryoarray device of claim 1, wherein said ejector pins are attached to said ejector plate through said mold plate to lower and to raise said ejector plate.

Claim 5 (canceled).

Claim 6 (original): A cryoarray system for forming an array for frozen tissue, comprising:

a tissue mold;

an embedding medium, said embedding medium filling said tissue mold, said embedding medium capable of being frozen therein, said frozen embedding medium forming a recipient tissue block; and

the cryoarray device of claim 1, said device placed in said tissue mold with said embedding medium, but prior to freezing said embedding medium;

wherein freezing said embedding medium around said cryoarray pins of the device of claim 1 creates grid holes into said recipient block upon separation of said cryoarray device from said recipient block thereby forming an array in said recipient block for frozen tissue.

Claim 7 (original): The cryoarray system of claim 6, wherein said embedding medium is O.C.T.[™] compound.

Claim 8 (original): The cryoarray system of claim 6, wherein said embedding material is frozen at a temperature of about -20 °C to about -80 °C.

Claim 9 (original): The cryoarray system of claim 6, wherein said recipient block is separated from said cryoarray device by depressing said ejector pins to lower said ejector plate over said cryoarray pins.

Claim 10 (original): A method for preparing tissue for assays, comprising the steps of:

selecting at least one frozen tissue core from a donor block;

inserting each of said at least one frozen core into said grid holes of said recipient block of the cryoarray system of claim 4;

cutting sections from said array; and

assaying said sections.

Claim 11 (original): The method of claim 10, wherein said tissue is from about 1.0 mm to about 3.0 mm in diameter.

Claim 12 (original): The method of claim 11, wherein said tissue is from about 2.5 mm to about 3.0 mm in diameter.

Claim 13 (original): The method of claim 10, wherein said tissue assay is selected from the group consisting of morphologic evaluation, *in situ* hybridization, immunohistochemistry, *in situ* polymerase chain reaction and fluorescence *in situ* hybridization.